ORDER NO. HAD8604437C8

Service Manual

Stereo Integrated Amplifier

Amplifier

SU-V50

Color

(K) · · · · Black Type
(S) · · · · Silver Type

Color	Area
(K)(S)	[E] . . . . . Continental Europe
(K)(S)	[EH] . . . . Holland
(K)(S)	[EB] . . . . Belgium
(K)(S)	[EF] . . . . France
(K)(S)	[EK] . . . . United Kingdom
(K)(S)	[EGA] . . . F.R. Germany
(K)(S)	[Ei] . . . . . Italy
(K)(S)	[XL] . . . . Australia
(K)(S)	[XA] . . . . Asia, Latin America, Middle Near East, Africa & Oceania

SPECIFICATIONS

(DIN 45 500)

■ AMPLIFIER SECTION

20 Hz~20 kHz continuous power output
- **both channels driven** 2 × 65W (8Ω)

1 kHz continuous power output
- **both channels driven** 2 × 85W (4Ω)

Total harmonic distortion
- **rated power at 20 Hz~20 kHz** 0.002% (8Ω)
- **rated power at 1 kHz** 0.005% (4Ω)
  0.0009% (8Ω)
- **half power at 20 Hz~20 kHz** 0.002% (8Ω)
- **half power at 1 kHz** 0.002% (4Ω)
  0.0008% (8Ω)

Intermodulation distortion
- **rated power at 250 Hz: 8 kHz=4:1, 8Ω** 0.005%
- **rated power at 60 Hz: 7 kHz=4:1, SMPTE, 8Ω** 0.005%

Power bandwidth
- **both channels driven, −3 dB** 5 Hz~60 kHz (8Ω, 0.03%)

Residual hum and noise 0.8 mV

Damping factor 30 (4Ω), 60 (8Ω)

Input sensitivity and impedance
- **PHONO MM** 2.5 mV/47kΩ
- **MC** 170 μV/220Ω
- **TUNER, CD, AV/AUX, TAPE 1/DA TAPE**
- **TAPE 2** 150 mV/22kΩ

PHONO maximum input voltage (1 kHz, RMS)
- **MM** 160 mV
- **MC** 12 mV

S/N
- **rated power (4Ω)**
  - **PHONO MM** 77 dB (83 dB, IHF, A)
  - **MC** 64 dB (65 dB, IHF, A)
  - **TUNER, CD, AV/AUX, TAPE 1/DA TAPE**
  - **TAPE 2** 91 dB (IHF, A: 100 dB)
- **−26 dB power (4Ω)**
  - **PHONO MM** 68 dB
  - **MC** 62 dB
  - **TUNER, CD, AV/AUX, TAPE 1/DA TAPE**
  - **TAPE 2** 70 dB
- **50 mW power (4Ω)**
  - **PHONO MM** 62 dB
  - **MC** 61 dB
  - **TUNER, CD, AV/AUX, TAPE 1/DA TAPE**
  - **TAPE 2** 62 dB

Frequency response
- **PHONO** RIAA standard curve ±0.8 dB (30 Hz~15 kHz)
- **TUNER, CD, AV/AUX, TAPE 1/DA TAPE**
- **TAPE 2** 5 Hz~120 kHz (−3 dB) +0, −0,2 dB (20 Hz~20 kHz)

Tone controls
- **BASS** 50 Hz, +10 dB~−10 dB
- **TREBLE** 20 kHz, +10 dB~−10 dB

Loudness control (volume at −30 dB) 50 Hz, +9 dB

Output voltage and impedance
- **TAPE, 1, 2 REC OUT** 150 mV

Channel balance, AUX 250 Hz~6,300 Hz ±1 dB

Channel separation, AUX 1 kHz 50 dB

Headphones output level and impedance 500 mV/330Ω

Load impedance
- **MAIN or REMOTE** 4Ω~16Ω
- **MAIN and REMOTE** 8Ω~16Ω

■ GENERAL

Power consumption 420W

Power supply
- **For United Kingdom and Australia** AC 50 Hz/60 Hz, 240V
- **For continental Europe** AC 50 Hz/60 Hz, 220V
- **For others** AC 50 Hz/60 Hz, 110V/127V/220V/240V

Dimensions (W×H×D) 430 × 116 × 290 mm (16-15/16" × 4-9/16" × 11-7/16")

Weight 7.7 kg (17.1 lb.)

Notes:
- Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

Specifications are subject to chnge without notice for further improvement.

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

■ TECHNISCHE DATEN

(DIN 45 500)

■ VERSTÄRKERTEIL

Dauerton-Ausgangsleistung bei 20 Hz ~ 20 kHz
beide Kanäle ausgesteuert 2 × 65W (8 Ω)
Dauerton-Ausgangsleistung bei 1 kHz
beide Kanäle ausgesteuert 2 × 85W (4 Ω)
Gesamtklirrfaktor
Nennleistung bei 20 Hz ~ 20 kHz 0,002% (8 Ω)
Nennleistung bei 1 kHz 0,005% (4 Ω)
0,0009% (8 Ω)
halbe Nennleistung bei 20 Hz ~ 20 kHz 0,002% (8 Ω)
halbe Nennleistung bei 1 kHz 0,002% (4 Ω)
0,0008% (8 Ω)
Intermodulationsfaktor
Nennleistung bei 250 Hz: 8 kHz = 4:1, 8 Ω 0,005%
Nennleistung bei 60 Hz: 7 kHz = 4:1, nach SMPTE, 8 Ω
0,005%
Leistungsbandbreite
beide Kanäle ausgesteuert bei −3 dB
5 Hz ~ 60 kHz (8 Ω, 0,03%)
Restbrumm und Geräusch 0,8 mV
Dämpfungsfaktor 30 (4 Ω), 60 (8 Ω)
Eingangsempfindlichkeit und -impedanz
Phono - magnetisch (PHONO MM) 2,5 mV/47 kΩ
Phono - dynamisch (PHONO MC) 170 μV/220 Ω
TUNER, CD, AV/AUX, TAPE 1/DA TAPE
TAPE 2 150 mV/22 kΩ
Maximale TA-Eingangsspannung (1 kHz, eff.)
magnetisch (MM) 160 mV
dynamisch (MC) 12 mV
Geräuschspannungsabstand
Nennleistung (4 Ω)
Phono - magnetisch (PHONO MM)
77 dB (83 dB nach IHF, A)
Phono - dynamisch (PHONO MC)
64 dB (65 dB nach IHF, A)
TUNER, CD, AV/AUX, TAPE 1/DA TAPE
TAPE 2 91 dB (nach IHF, A: 100 dB)
−26 dB Leistung (4 Ω)
Phono - magnetisch (PHONO MM) 68 dB
Phono - dynamisch (PHONO MC) 62 dB
TUNER, CD, AV/AUX, TAPE 1/DA TAPE
TAPE 2 70 dB
50 mW Leistung (4 Ω)
Phono - magnetisch (PHONO MM) 62 dB
Phono - dynamisch (PHONO MC) 61 dB
TUNER, CD, AV/AUX, TAPE 1/DA TAPE
TAPE 2 62 dB
Frequenzgang
Phono MM RIAA-Standardkurve,
±0,8 dB (30 Hz ~ 15 kHz)
TUNER, CD, AV/AUX, TAPE 1/DA TAPE
TAPE 2 5 Hz ~ 120 kHz (−3 dB)
+0, −0,2 dB (20 Hz ~ 20 kHz)
Klangregler
Baßregler (BASS) 50 Hz, +10 dB ~ −10 dB
Höhenregler (TREBLE) 20 kHz, +10 dB ~ −10 dB
Gehörrichtige Lautstärkekorrektur (Loudness)
(bei −30 dB Ausgangsleistung) 50 Hz, +9 dB
Ausgangsspannung und -impedanz
Tape 1/2 Aufnahme (TAPE 1, 2 REC OUT) 150 mV
Kanalabweichung (Aux, 250 Hz ~ 6300 Hz) ±1 dB
Übersprechdämpfung (Aux, 1 kHz) 50 dB
Kopfhörerpegel und -impedanz 500 mV/330 Ω
Lautsprecherimpedanz
MAIN oder REMOTE 4 Ω ~ 16 Ω
MAIN und REMOTE 8 Ω ~ 16 Ω

■ ALLGEMEINE DATEN

Leistungsaufnahme 420 W
Netzspannung
Für Kontinentaleuropa Wechselstrom 50 Hz/60 Hz, 220V
Für andere Länder Wechselstrom 50 Hz/60 Hz,
110V/127V/220V/240V
Abmessungen (B×H×T) 430 × 116 × 290 mm
Gewicht 7,7 kg

Bemerkung:
Der Gesamtklirrfaktor wurde mit einem digitalen Rauschspektrometer (Anlage H.P. 3045) gemessen.

Spezifikationen können infolge von Verbesser ungen ohne Ankündigung geändert werden.

■ CARACTERISTIQUES

(DIN 45 500)

■ SECTION AMPLIFICATEUR

Puissance de sortie continue de 20 Hz~20 kHz,
les deux canaux en circuit 2 × 65W (8Ω)
Puissance de sortie continue à 1 kHz
les deux canaux en circuit 2 × 85W (4Ω)
Distorsion harmonique totale
à puissance nominale (20 Hz~20 kHz) 0,002% (8Ω)
à puissance nominale (1 kHz) 0,005% (4Ω)
0,0009% (8Ω)
à demi-puissance (20 Hz~20 kHz) 0,002% (8Ω)
à demi-puissance (1 kHz) 0,002% (4Ω)
0,0008% (8Ω)
Distorsion d'intermodulation
à puissance nominale à 250 Hz: 8 kHz=4:1, 8Ω 0,005%
à puissance nominale à 60 Hz: 7 kHz=4:1, SMPTE, 8Ω
0.005%
Réponse de fréquences
les deux canaux en circuit, −3 dB
5 Hz~60 kHz (8Ω, 0,03%)
Bruit et ronflement résiduels 0,8 mV
Coefficient d'amortissement 30 (4Ω), 60 (8Ω)
Sensibilité et impédance d'entrée
PHONO, AIMANT MOBILE (PHONO MM) 2,5 mV/47kΩ
PHONO, BOBINE MOBILE (PHONO MC) 170 μV/220Ω
TUNER, CD, AV/AUX, TAPE 1/DA TAPE
TAPE 2 150 mV/22kΩ
PHONO (tension d'entrée maximum, 1 kHz RMS)
AIMANT MOBILE (MM) 160 mV
BOBINE MOBILE (MC) 12 mV
Signal/Bruit
à puissance nominale (4Ω)
PHONO, AIMANT MOBILE (PHONO MM)
77 dB (83 dB, IHF, A)
PHONO, BOBINE MOBILE (PHONO MC)
64 dB (65 dB, IHF, A)
TUNER, CD, AV/AUX, TAPE 1/DA TAPE
TAPE 2 91 dB (IHF, A: 100 dB)
puissance de −26 dB (4Ω)
PHONO, AIMANT MOBILE (PHONO MM) 68 dB
PHONO, BOBINE MOBILE (PHONO MC) 62 dB
TUNER, CD, AV/AUX, TAPE 1/DA TAPE
TAPE 2 70 dB
puissance de 50 mW (4Ω)
PHONO, AIMANT MOBILE (PHONO MM) 62 dB
PHONO, BOBINE MOBILE (PHONO MC) 61 dB
TUNER, CD, AV/AUX, TAPE 1/DA TAPE
TAPE 2 62 dB
Réponse de fréquence
PHONO Courbe nominale RIAA
±0,8 dB (30 Hz~15 kHz)
TUNER, CD, AV/AUX, TAPE 1/DA TAPE
TAPE 2 5 Hz~120 kHz (−3 dB)
+0, −0,2 dB (20 Hz~20 kHz)
Réglage de la tonalité
BASSES (BASS) 50 Hz, +10 dB~ −10 dB
AIGUS (TREBLE) 20 kHz, +10 dB~ −10 dB
Compensateur physiologique (volume à −30 dB)
50 Hz, +9 dB
Tension de sortie et impédance
SORTIE ENREGISTREMENT/BANDE 1, 2
(TAPE 1, 2 REC OUT) 150 mV
Equilibrage des canaux, AUX 250 Hz~6 300 Hz ±1 dB
Séparation des canaux, AUX 1 kHz 50 dB
Niveau de sortie des casques et impédance 500 mV/330Ω
Impédance de charge
PRINCIPALE ou AUXILIAIRE (MAIN or REMOTE)
4Ω~16Ω
PRINCIPALE et AUXILIAIRE (MAIN and REMOTE)
8Ω~16Ω

■ DIVERS

Consommation 420W
Alimentation
Pour l'Europe CA 50 Hz/60 Hz, 220V
Autres CA 50 Hz/60 Hz, 110V/127V/220V/240V
Dimensions (L×H×Pr) 430 × 116 × 290 mm
Poids 7,7 kg

Remarque:
On mesure la distorsion harmonique totale au moyen d'un analyseur de spectre digital (Système H.P. 3045).

Sujet á changement sans prearis.

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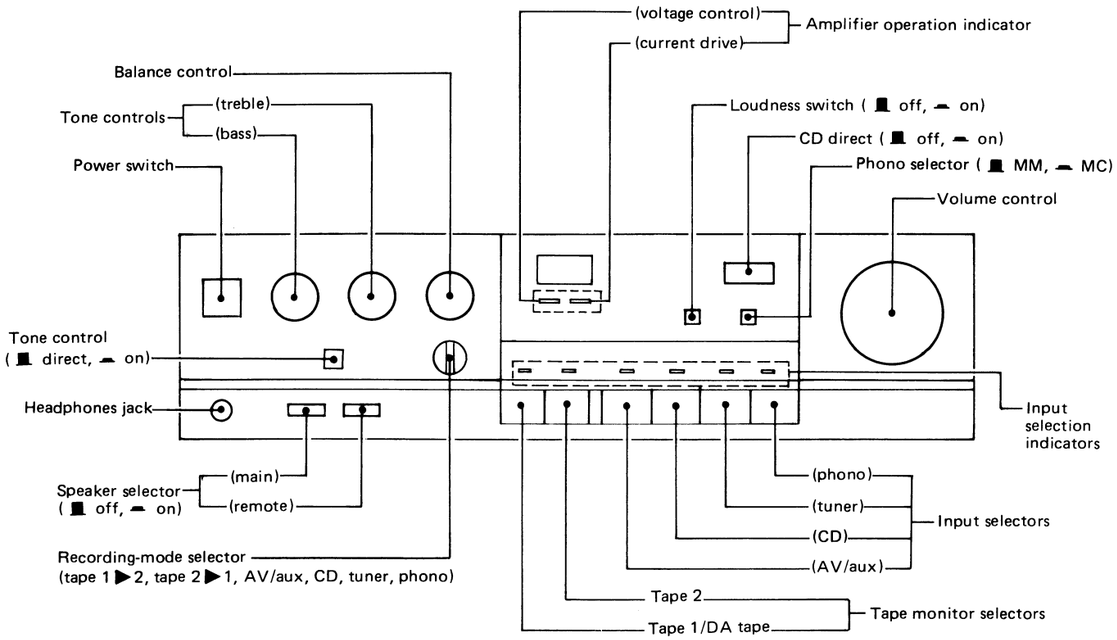
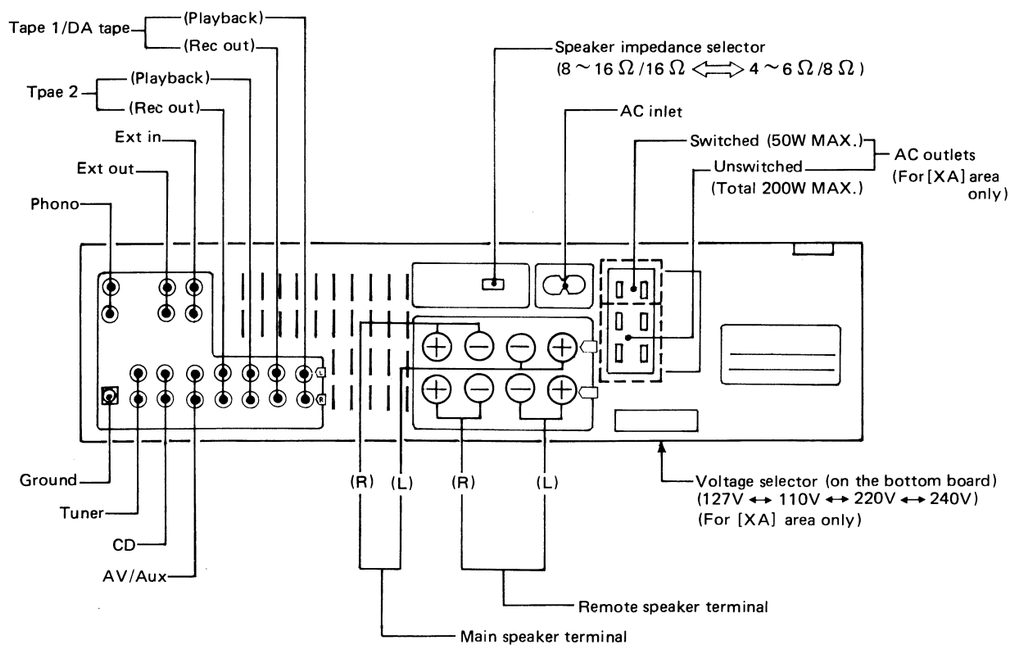
■ LOCATION OF CONTROLS





- The power supply for this unit varies depending upon the areas. Also, the parts used for power supply are different. So, refer to the circuit diagram and replacement parts list.
- * [XA] area is provided with voltage selector and AC outlets.
- * 240V (50/60Hz) for Australia and United Kingdom.
- * 220V (50/60Hz) for Continental Europe.
- * 127V/110V/220V/240V (50/60Hz) for other [XA] area.
- * Phono input capacitance is about 150pF.

Suggestions

- If noise is very annoying while listening to an FM or AM broadcast, switch OFF the video disc player, compact-disc player and turntable.
- Switch OFF the video disc player power if noise is excessive while listening to an audio tape, compact disc or regular phono disc.

Notes:

- To record sounds from a compact disc, press the input selector marked "CD".
  The compact-disc-direct switch is for listening only; it cannot be used to select the compact disc as a recording source.

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted" , or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

■ BEFORE REPAIR AND ADJUSTMENT

(1) Turn off the power supply. Using a 10Ω, 5W resistor, shortcircuit both ends of power supply capacitors (C705, C706, 8200μF) in order to discharge the voltage.

(2) Before turning on the power switch of the set . . .

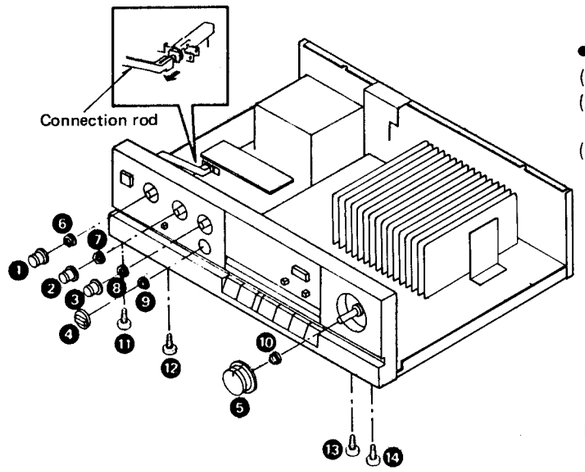
A. Connect the voltage controller to the primary side.
B. Connect the AC ampere meter to the primary side or connect the DC voltage metar to the "±B" circuit of the secondary side.
C. Turn the VR of ICQ (VR401 and VR402) to minimum (counterclockwise).
D. After setting the output to zero of the voltage contoller, turn on the power switch of the set.
And increase the output of voltage controller gradually.
Then, check carefully whether the current value of primary side become more than followings value or whether the DC voltage of secondary side is increasing slowly.
E. If the value of current is increasing unusually or the DC voltage is not increasing, lower the output level of voltage contoller immediately.
F. Check the transistors of voltage amplifier and current amplifier IC501.
G. After repairing, adjust the ICQ.

- The current value of the primary side at no signal. (Confirm the power supply voltage of each area and provided voltage of the set.)

Power supply voltage	AC110V	AC127V	AC220V	AC240V
Consumed current 50/60Hz	280 ~ 560mA	260 ~ 520mA	140 ~ 280mA	130 ~ 260mA

■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1	How to remove the front panel
Procedure 1	1. Remove the connection rod. 2. Remove the 5 knobs (❶ ~ ❺). 3. Remove the 5 nuts (❻ ~ ❿). 4. Remove the 4 screws (⓫ ~ ⓮). 5. Remove the connector (J102 ~ J105, J118, J119). 6. Remove the 1 lock pin (⓯). 7. Remove the "Rec-select" switch (⓰).



● How to remove the "Rec-select" switch

Pusing the rec switch, shift it up as in Fig. 1.

● How to fit the rec switch

(1) Shift the switch contact inside.
(2) Turn the "Rec-select" switch (selector knob) counterclockwise.
(3) Let the "Rec-select" switch claw change with the switch, and shift the "Rec-select" switch down while pusing in.

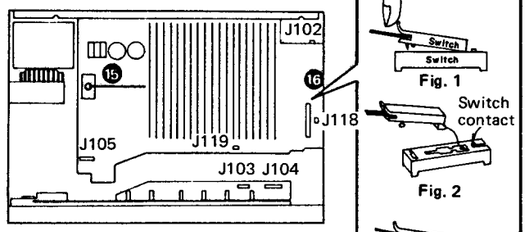


Fig. 2

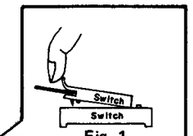
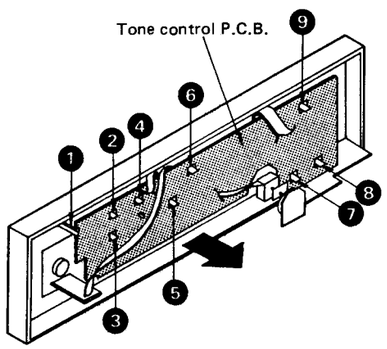
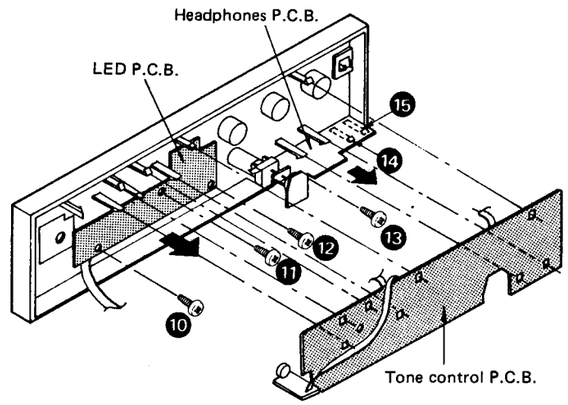


Fig. 1

Fig. 3

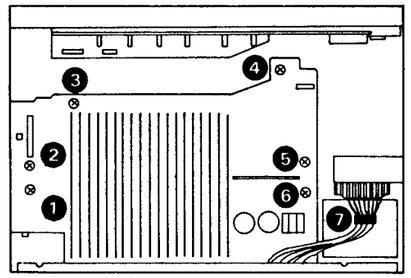
Ref. No. 2	How to remove the P.C.B.
Procedure 1 → 2	1. Push the 9 tabs (❶ ~ ❾). 2. Remove the tone control P.C.B. 3. Remove the 3 screws (❿ ~ ⓬). 4. Remove the LED P.C.B. 5. Remove the 1 screw (⓭). 6. Push the 2 tabs (⓮ , ⓯). 7. Remove the headphones P.C.B.

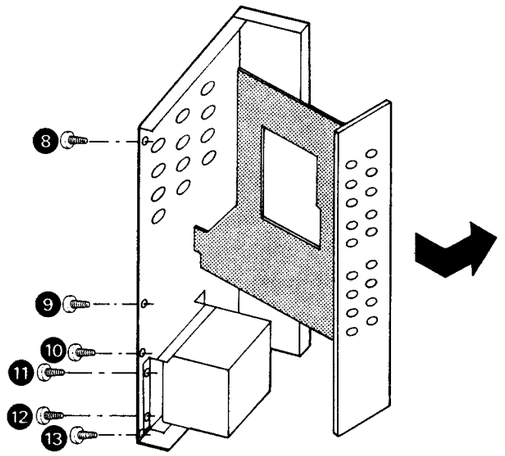




Ref. No. 3	How to remove the main P.C.B.

1. Remove the 6 screws (❶ ~ ❻).
2. Cut the clamper (❼).
3. Remove the 6 screws (❽ ~ ⓭).
4. Remove the main P.C.B.





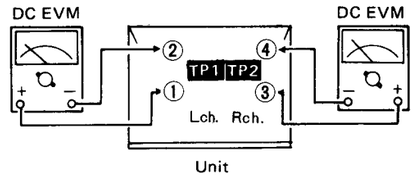
■ MEASUREMENTS AND ADJUSTMENTS

Control positions and equipment used.

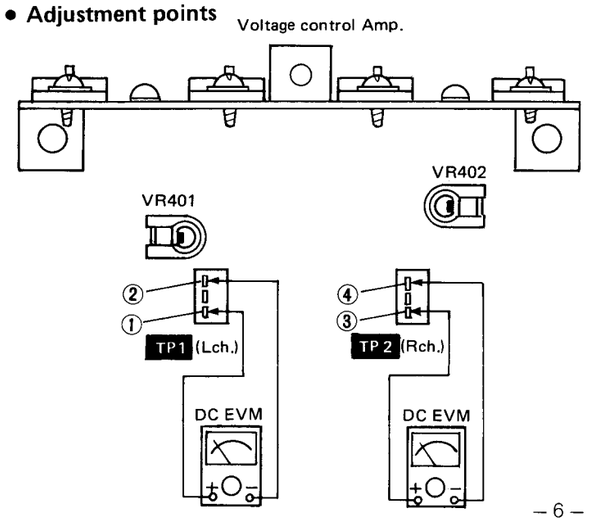
- Volume knob . . . . . ∞ (Minimum)
- Main speaker selector . . . . . off
- Remote speaker selector . . . . . off
- Speaker impedance switch . . . . . 8Ω ~ 16Ω
- DC electronic voltmeter (EVM)

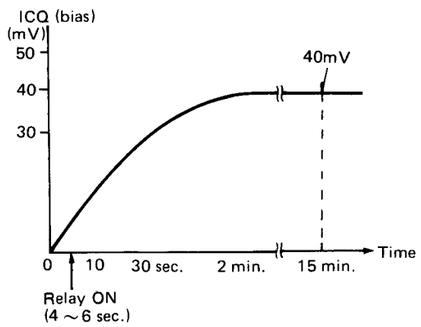
IDLING (ICQ) ADJUSTMENT

1. Test equipment connection is shown in figure. Connect the DC EVM. on both channels.)
2. Turn the ICQ control volume (**VR401, VR402**) counter-clockwise.
3. Turn ON the set when it is cold, and 15 sec. later, adjust **VR401** and **VR402** so that the voltage is **20mV.** Also, check that the voltage is **18 – 47mV** (standard: **40mV**) after lapse of **10 – 15 minutes.** (Below **50mV** after lapse of **60 min.**).



● Adjustment points





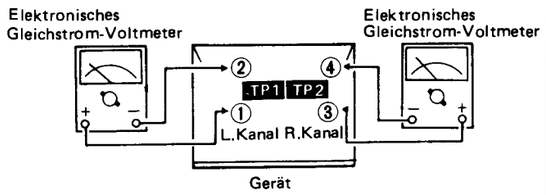
■ MESSUNGEN UND JUSTIERUNGEN

Einstellungen der Bedienelemente und zu verwendende Geräte

- Lautstärkeregler . . . . . ∞
- Hauptlautsprecher-Wahlschalter . . . . . off
- Nebenlautsprecher-Wahlschalter . . . . . off
- Lautsprecherimpedanz-Schalter . . . . . 8Ω ~ 16Ω
- Elektronisches Gleichstrom-Voltmeter

LEERLAUF-(ICQ)-JUSTIERUNG

1. Anschlußverbindungen wie gezeigt vornehmen. (Das Gleichspannungs-Voltmeter an beide Kanäle anschließen.)
2. Die ICQ-Volumenregler (**VR401, VR402**) entgegen dem Uhrzeigersinn drehen.
3. Das Gerät einschalten, wenn es kalt ist, und 15 Sekunden später **VR401** und **VR402** so justieren, daß die Spannung **20mV** beträgt. Ebenfalls überprüfen, daß die Spannung nach Ablauf von **10 – 15** Minuten zwischen **38 – 47mV** (Standardwert ist **40mV**) liegt. (Nach Ablauf von **60** Minuten: unter **50mV**)



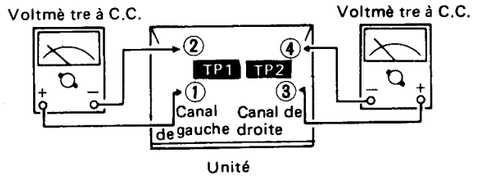
■ MESURAGES ET RÉGLAGES

Positions de réglage et équipement utilisé

- Bouton du volume . . . . . ∞
- Sélecteur du haut-parleur principal . . . . . hors circuit
- Sélecteur du haut-parleur auxiliaire . . . . . hors circuit
- Sélecteur d'impedance des enceints . . . . . 8Ω ~ 16Ω
- Voltmetres électroniques à C.C.

RÉGLAGE DU TEMPS MORT (ICQ)

1. Effecture le raccordement comme il est montré. (Raccorder le voltmètre à C.C. sur les deux canaux.)
2. Tourner le volume de contrôle de ICQ (**VR401, VR402**) dans sens inverse des aiguilles d'une montre. des aiguilles d'une montre.
3. Mettre l'appareil en marche lorsqu'il est froid, et 15 sec. plus tard, régler **VR401** et **VR402** de telle sorte que la tension soit de **20mV**. Vérifier aussi que la tension soit de **38 – 47mV** (normale: **40mV**) après un intervalle de **10 – 15** minutes. (Au-dessous de **50mV**, après un intervalle de **60** min.)



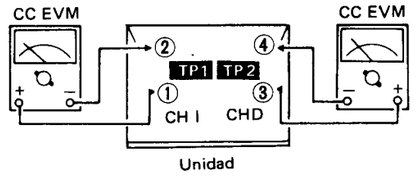
■ MEDICIONES Y AJUSTE

Posiciones de control y equipo usádo

- Perilla de volumen . . . . . ∞
- Selector de altavoz principal . . . . . off (desconectado)
- Selector de altavoz remoto . . . . . off
- Selector de impedancia de altavoces . . . . 8Ω ~ 16Ω
- Voltímetro electrónico de CC (EVM)

AJUSTE DE MARCHA EN VACÍO (ICQ)

1. Hacer la conexión como se muestra. (Conectar el voltímetro de CC en ambos canales.)
2. Girar el volumen de control ICQ (**VR401, VR402**) a la izquierda.
3. Prender el aparato cuando está frío y, 15 seg. más tarde, ajustar **VR401** y **VR402** de manera que el voltaje sea **20mV**. También, comprobar que el voltaje sea **38 – 47mV** (estandard: **40mV**) después de un lapso de **10 – 15** minutos. (Inferior a **50mV** después de un lapso de **60** min.)



■ RESISTORS & CAPACITORS

Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety nitice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
3. Ⓚ – marked parts are used for black only, while ○ – marked parts are for silver type only.
4. Part other than Ⓚ – and ○ – marked are used for both black and silver type.
5. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
6. The "Ⓢ" mark is service standard parts and may differ from production parts.
7. The unit of resistance is OHM (Ω). K = 1000Ω, M = 1000KΩ
8. The unit of capacitance is MICROFARAD (μF). P = 10^{-6}μF.

Resistor Type	Wattage	Tolerance
ERD : Carbon	25 : 1/4W	J : ± 5%
ERG : Metal Oxide	2F : 1/4W	G : ± 2%
ERC : Solid	S2 : 1/4W	K : ±10%
	S1 : 1/2W	
	12 : 1/2W	

Capacitor Type		Voltage		Tolerance
		ECEA Type	Other	
ECEA....N	: Non-polar Electrolytic	2R3 : 2.3V	0J : 6.3V DC	C : ± 0.25pF
ECEA	: Electrolytic	DC	1H : 50V DC	J : ± 5%
ECCD	: Ceramic	OJ : 6.3V	1 : 125V DC	K : ±10%
ECKD	: Ceramic	1C : 16V	2H : 500V DC	Z : +80%, –20%
ECQM	: Polyester	1E : 25V	KC : 400V AC	M : ±20%
ECQV	: Polyester	1V : 35V		
ECQP	: Polypropylene	1H : 50V		
EECW	: Liquid electrolyte double layer capacitor	50 : 50V 25 : 25V		
ECKF	: Ceramic	2A : 100V		

● RESISTORS

Ref. No.	Part No.	Value
R101, 102 [EGA] only	ERDS2TJ102	1K
R103, 104 [EGA] only	ERDS2TJ102	1K
R105, 106	ERDS2TJ274	270K
R107, 108	ERDS2TJ221	220
R109, 110	ERDS2TJ220	22
R113, 114	ERDS2TJ563	56K
R117, 118	ERDS2TJ151	150
R119, 120	ERDS2TJ100	10
R123, 124	ERDS2TJ151	150
R125, 126	ERDS2TJ682	6.8K
R127, 128	ERDS2TJ823	82K
R129, 130	ERDS2TJ334	330K
R131, 132	ERDS2TJ561	560
R201, 202 [EGA] only	ERDS2TJ102	1K
R203, 204 [EGA] only	ERDS2TJ102	1K
R205, 206 [EGA] only	ERDS2TJ102	1K

Ref. No.	Part No.	Value
R207, 208 [EGA] only	ERDS2TJ102	1K
R209, 210 [EGA] only	ERDS2TJ102	1K
R211, 212	ERDS2TJ473	47K
R213, 214	ERDS2TJ183	18K
R219, 220	ERDS2TJ272	2.7K
R223, 224 [EGA] only	ERDS2TJ102	1K
R301, 302	ERDS2TJ561	560
R303, 304	ERDS2TJ823	82K
R305, 306	ERDS2TJ224	220K
R307, 308	ERDS2TJ392	3.9K
R309, 310	ERDS2TJ223	22K
R311, 312	ERDS2TJ102	1K
R313, 314	ERDS2TJ562	5.6K
R315, 316	ERDS2TJ392	3.9K
R317, 318	ERDS2TJ223	22K
R319, 320	ERDS2TJ183	18K
R401, 402	ERDS2TJ561	560
R403, 404	ERDS2TJ823	82K
R405, 406	ERDS2TJ272	2.7K
R407, 408	ERDS2TJ823	82K

Ref. No.	Part No.	Value
R409, 410	ERDS2TJ561	560
R411, 412 ⚠	ERD25FJ470	47
R415, 416	ERDS2TJ182	1.8K
R417, 418	ERDS2TJ391	390
R419, 420 ⚠	ERD25FJ101	100
R421, 422	ERDS2TJ223	22K
R423, 424	ERDS2TJ821	820K
R425, 426	ERDS2TJ223	22K
R427, 428 ⚠	ERD25FJ101	100
R429, 430	ERDS2TJ2R2	2.2
R431, 432	ERDS2TJ2R2	2.2
R433, 434 ⚠	ERD25FJ101	100
R435	ERDS2TJ103	10K
R436 ⚠	ERD25FJ470	47
R437	ERDS2TJ473	47K
R438, 439 ⚠	ERD25FJ6R8	6.8
R501, 502	EROS2TKF4220	422
R505, 506	EROS2TKF1000	100
R507, 508	EROS2TKF1000	100
R509, 510	ERDS2TJ271	270
R511, 512	ERDS2TJ271	270

Ref. No.	Part No.	Value
R513, 514 ⚠	ERDS1FJ100	10
R515, 516 ⚠	ERD25FJ100	10
R517, 518	ERDS2TJ472	4.7K
R519, 520	ERDS2TJ153	15K
R523, 524	ERG2SJ331	330
R601	ERDS2TJ471	470
R602	ERDS2TJ331	330
R604	ERDS2TJ471	470
R605	ERDS2TJ331	330
R607, 608	ERDS2TJ473	47K
R609	ERDS2TJ153	15K
R610	ERDS2TJ124	120K
R611	ERDS2TJ472	4.7K
R612	ERG3SJ821	820
R613 ⚠	ERDS1FJ180	18
R614	ERDS2TJ183	18K
R701, 702	ERDS2TJ153	15K
R703, 704 ⚠	ERD25FJ821	820
R705	ERDS2TJ122	1.2K
R707, 708 ⚠	ERDS1FJ822	8.2K

● CAPACITORS

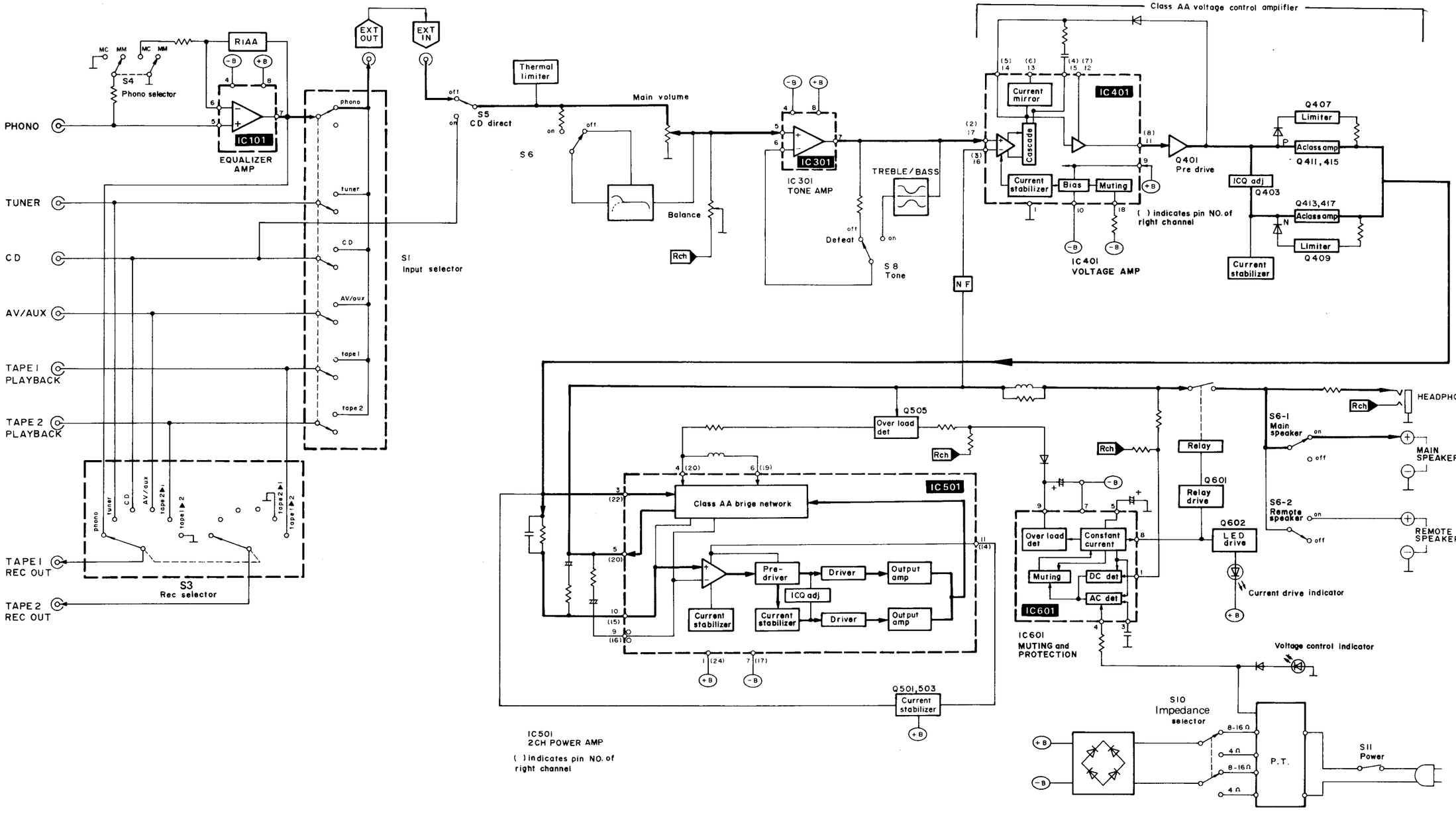
Ref. No.	Part No.	Value
C1 [EK] only ⚠	ECKDKC103PF2	0.01
C1 [other] ⚠	ECKDNS103ZV	0.01
C101, 102 [EGA] only	ECCD1H820K	82P
C103, 104	ECQM1H103JZ	0.01
C105, 106	ECCD1H181K	180P
C107, 108	ECEA0JU222	2200
C109, 110 [EGA] only	ECKD1H471KB	470P
C111, 112	ECQM1H122JZ	0.0012
C113, 114	ECQM1H103JZ	0.01
C115, 116	ECQM1H393JZ	0.039
C117, 118	ECEA1HN010S	1
C119, 120	ECQM1H472JZ	0.0047
C121, 122	ECKD1H103ZF	0.01
C123, 124	ECEA1HU3R3	3.3
C125[EGA]	ECCD1H331KB	330P
C201, 202 [EGA] only	ECCD1H820K	82P
C203, 204 [EGA] only	ECCD1H101K	100P
C205, 206 [EGA] only	ECCD1H101K	100P
C207, 208 [EGA] only	ECCD1H101K	100P

Ref. No.	Part No.	Value
C209, 210 [EGA] only	ECCD1H101K	100P
C211, 212 [EGA] only	ECCD1H101K	100P
C213, 214	ECQM1H563JZ	0.056
C301, 302	ECEA1HU3R3	3.3
C303, 304	ECCD1H101K	100P
C305, 306	ECCD1H820K	82P
C307, 308	ECEA1VU4R7	4.7
C309, 310	ECCD1H390K	39P
C311, 312	ECEA1EU100	10
C313, 314	ECQM1H823JZ	0.082
C315, 316	ECQM1H153JZ	0.015
C317, 318	ECQM1H183JZ	0.018
C319, 320	ECQM1H182JZ	0.0018
C321, 322	ECKD1H223ZF	0.022
C401, 402	ECEA1HU3R3	3.3
C403, 404	ECCD1H151K	150P
C405, 406	ECEA1CU220	22
C407, 408	ECCD1H820K	82P
C409, 410	ECCD1H070D	7P
C411, 412	ECKD1H681KB	680P
C413, 414	ECCD2H070D	7P

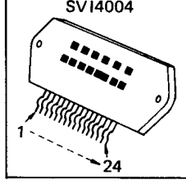
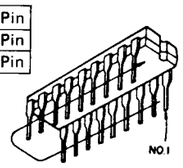
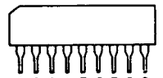
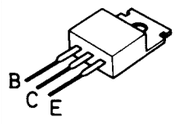
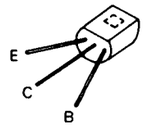
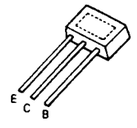
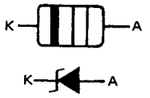
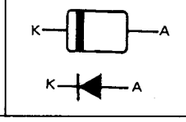
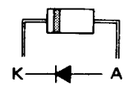
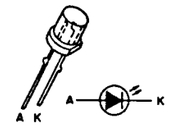
Ref. No.	Part No.	Value
C415, 416	ECQM1H102JZ	0.001
C417, 418	ECEA1HU010	1
C419, 420	ECCD2H680K	68P
C421, 422	ECCD2H680K	68P
C423, 424	ECKD1H333ZF	0.033
C425	ECEA2AU100	10
C426[EGA]	ECKD1H102KB	0.001
C427	ECKD1H223ZF	0.022
C501, 502	ECCD1H560K	56P
C503, 504	ECCD2H330K	33P
C505, 506	ECQM1H392JZ	0.0039
C507, 508	ECEA1AU101	100
C509, 510	ECEA1AU101	100
C511, 512	ECCD2H330K	33P
C513, 514	ECKD1H561KB	560P
C515, 516	ECKD1H333ZF	0.033
C517, 518	ECKD1H333ZF	0.033
C519, 520 [EK] only	ECQM1H473JZ	0.047
C519, 520 [other]	ECQM1H223JZ	0.022
C521, 522 [EGA] only	ECQM1H333JZ	0.033
C523, 524 [EGA] only	ECKD1H102MD	0.001

Ref. No.	Part No.	Value
C525, 526 [EGA] only	ECQM1H333JZ	0.033
C527, 528 [EGA] only	ECKD1H102MD	0.001
C529, 530 [EK] only	ECQM1H473JZ	0.047
C531, 532	ECEA1HU010	1
C533, 534 Except[EGA]	ECFTD472K	0.0047
C601	ECEA0JU331	330
C602	ECFTD223KXL	0.022
C603	ECEA0JU470	47
C604	ECEA1EU4R7	4.7
C605	ECEA1CU471	470
C701, 702	ECEA1HU3R3	3.3
C703, 704	ECEA1EU330	33
C705, 706 ⚠	ECES1JU822U	8200
C708 [EGA] only	ECQE2104KS	0.1
C708 [other]	ECKD2H103PE	0.01
C709[EGA]	ECKD1H103ZF	0.01
C712[EGA]	ECKD1H223ZF	0.022

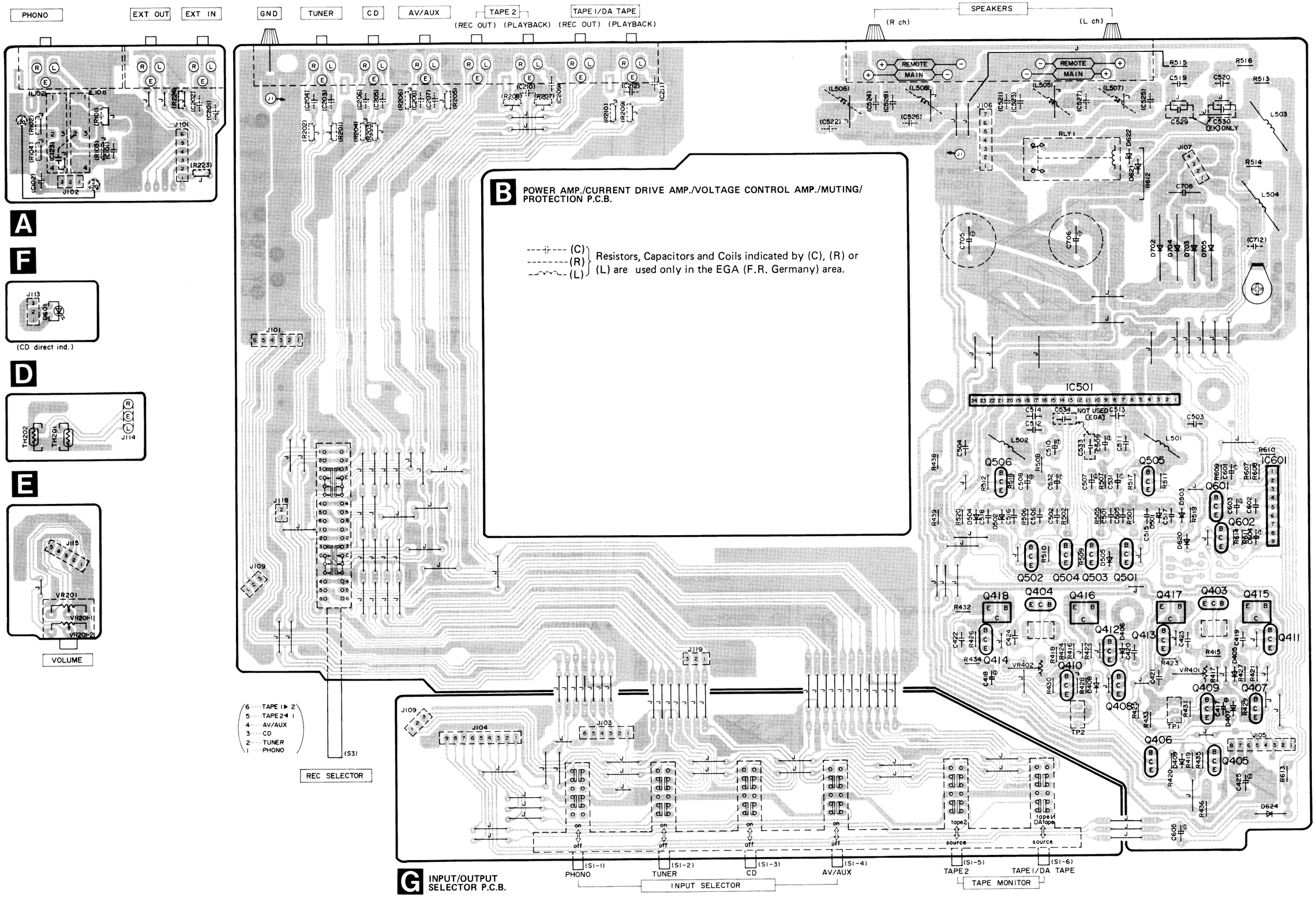
■ BLOCK DIAGRAM



• Terminal guide of IC, transistor and diode

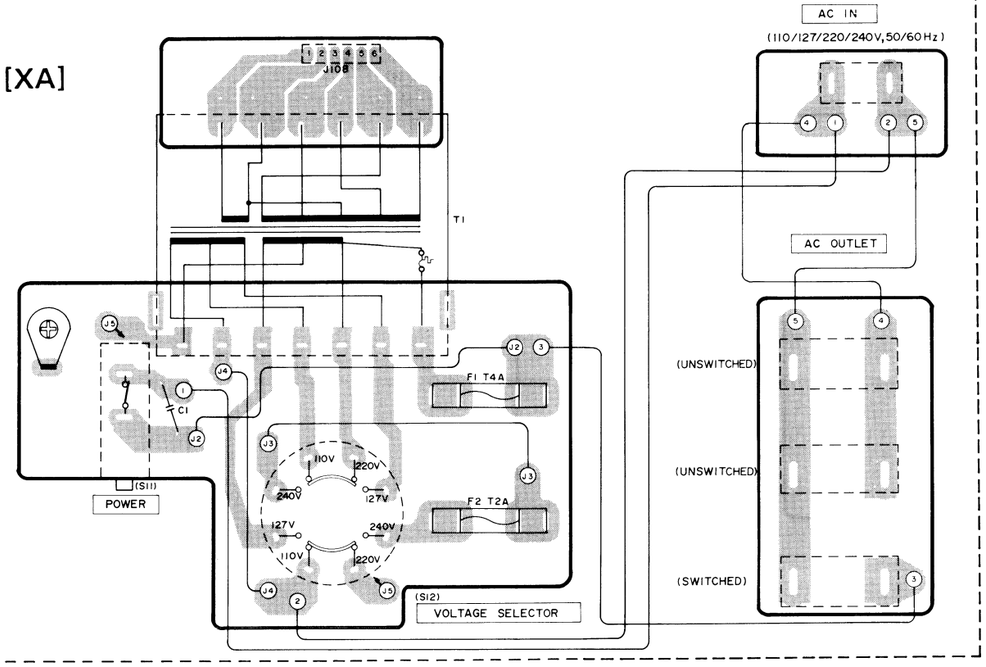
SVI4004 	AN6558F 8 Pin M5219P 8 Pin AN7062N 18 Pin 	AN7073 	2SC3298, 2SC2592 2SA1306, 2SA1112 	2SC1685, 2SA1123 2SA992, 2SC2631 	2SA1309 2SC3311 	MA4062 MA4033M MA4120M MA4160M 	MA162A, MA165 MA167, MA29WA 	SVDS3V40 SVDSR1K2 	LN463YCPP LN863RCPP 

■ PRINTED CIRCUIT BOARDS

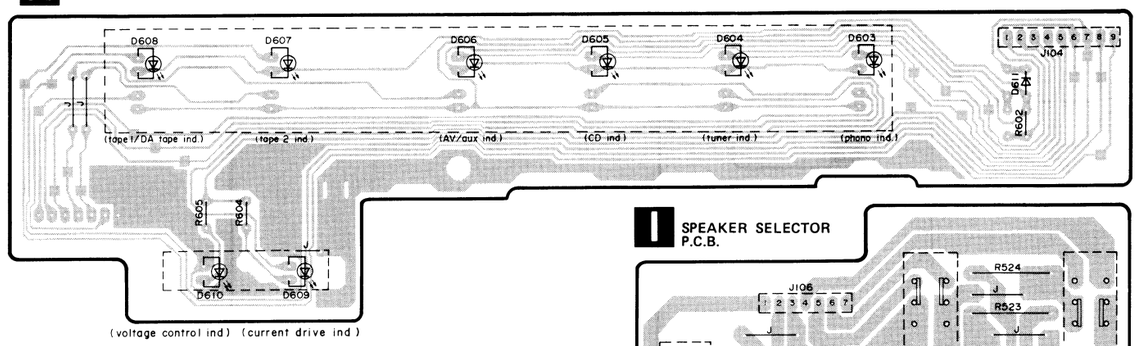


11 12 13 14 15 16 17 18 19

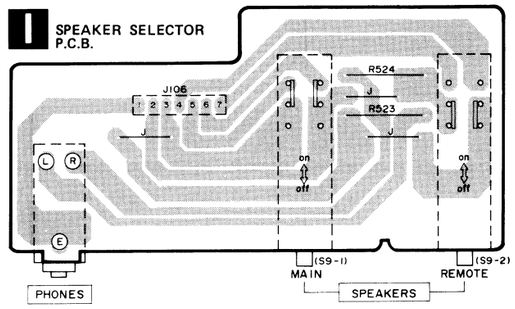
[XA]



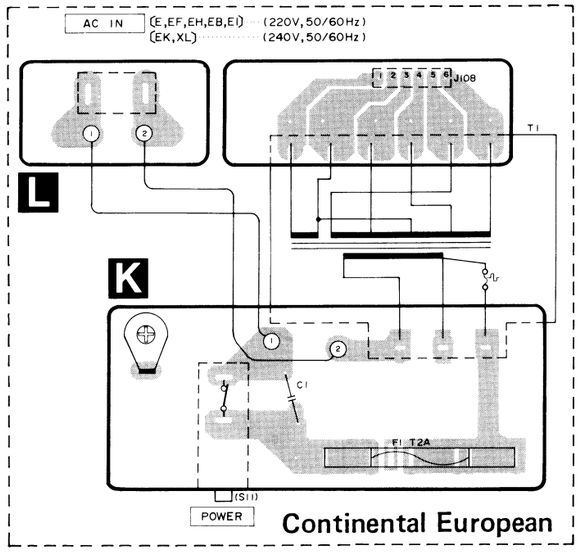
H LED P.C.B.



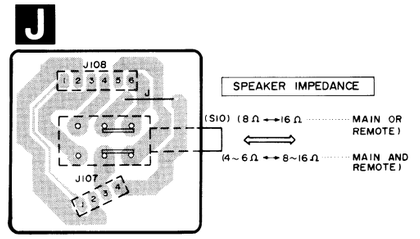
I SPEAKER SELECTOR P.C.B.



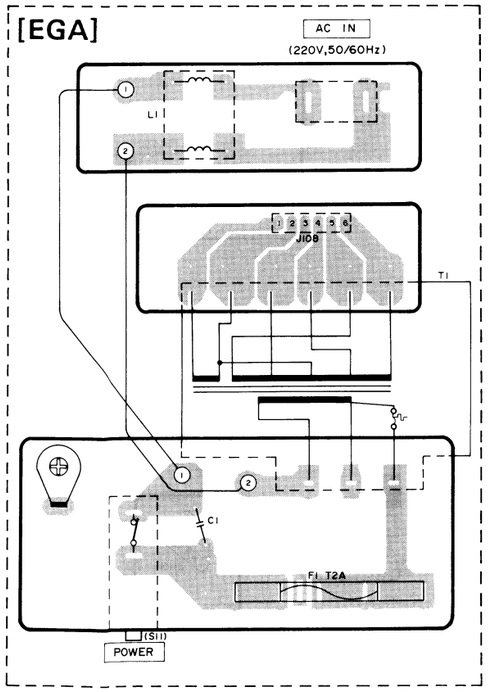
L K



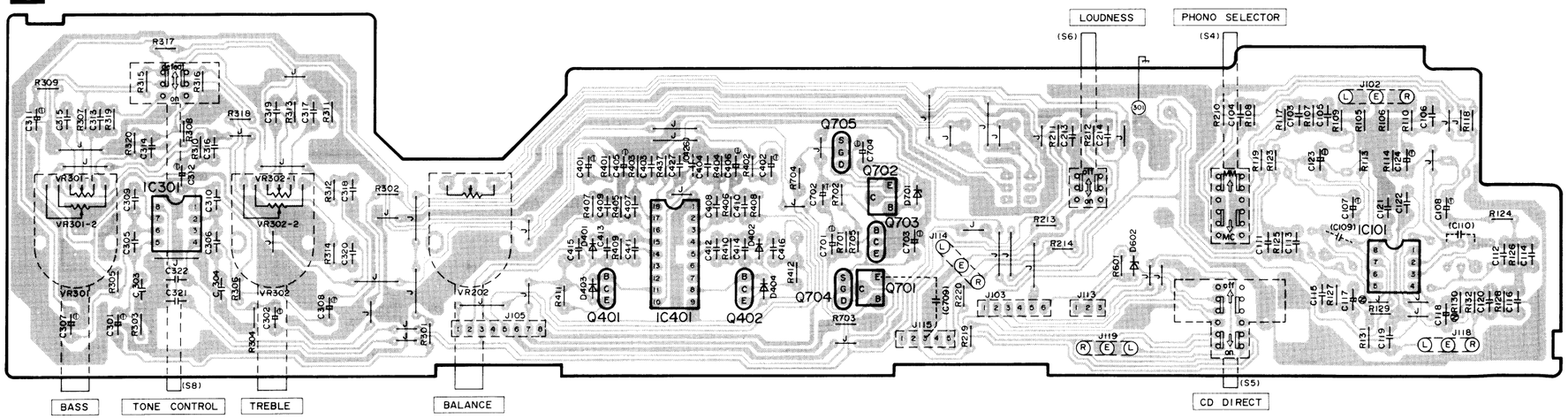
J



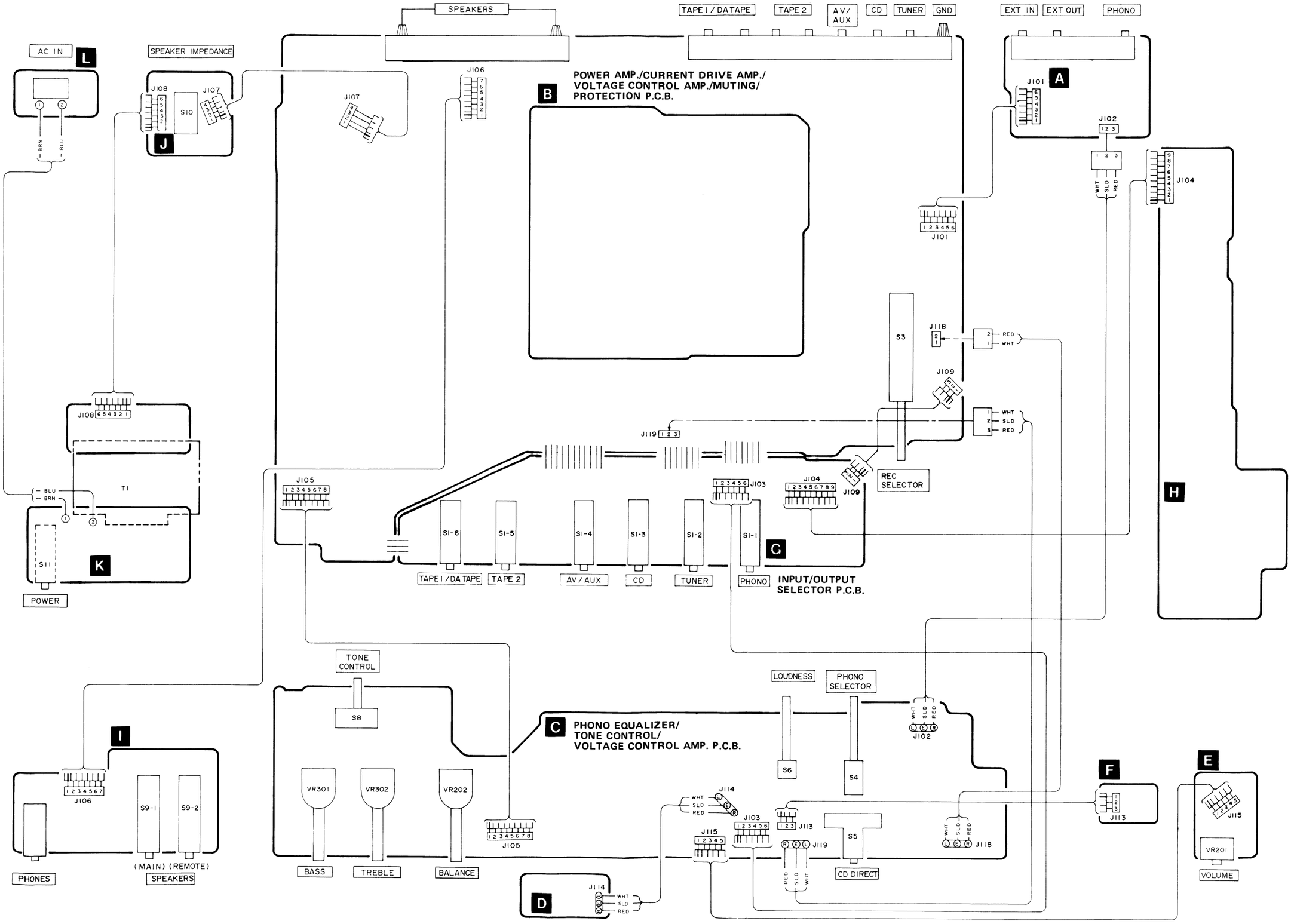
[EGA]



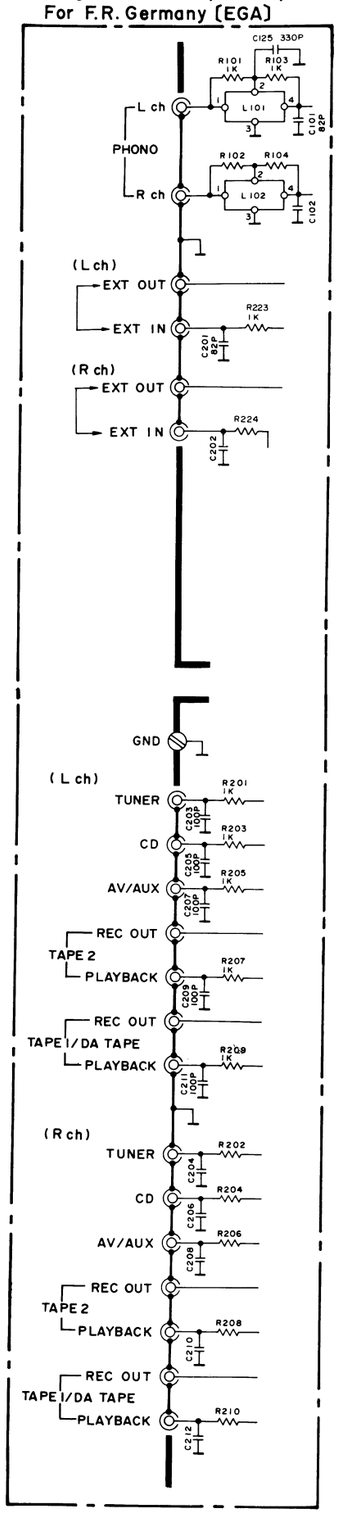
C PHONO EQUALIZER/ TONE CONTROL/ VOLTAGE CONTROL AMP. P.C.B.

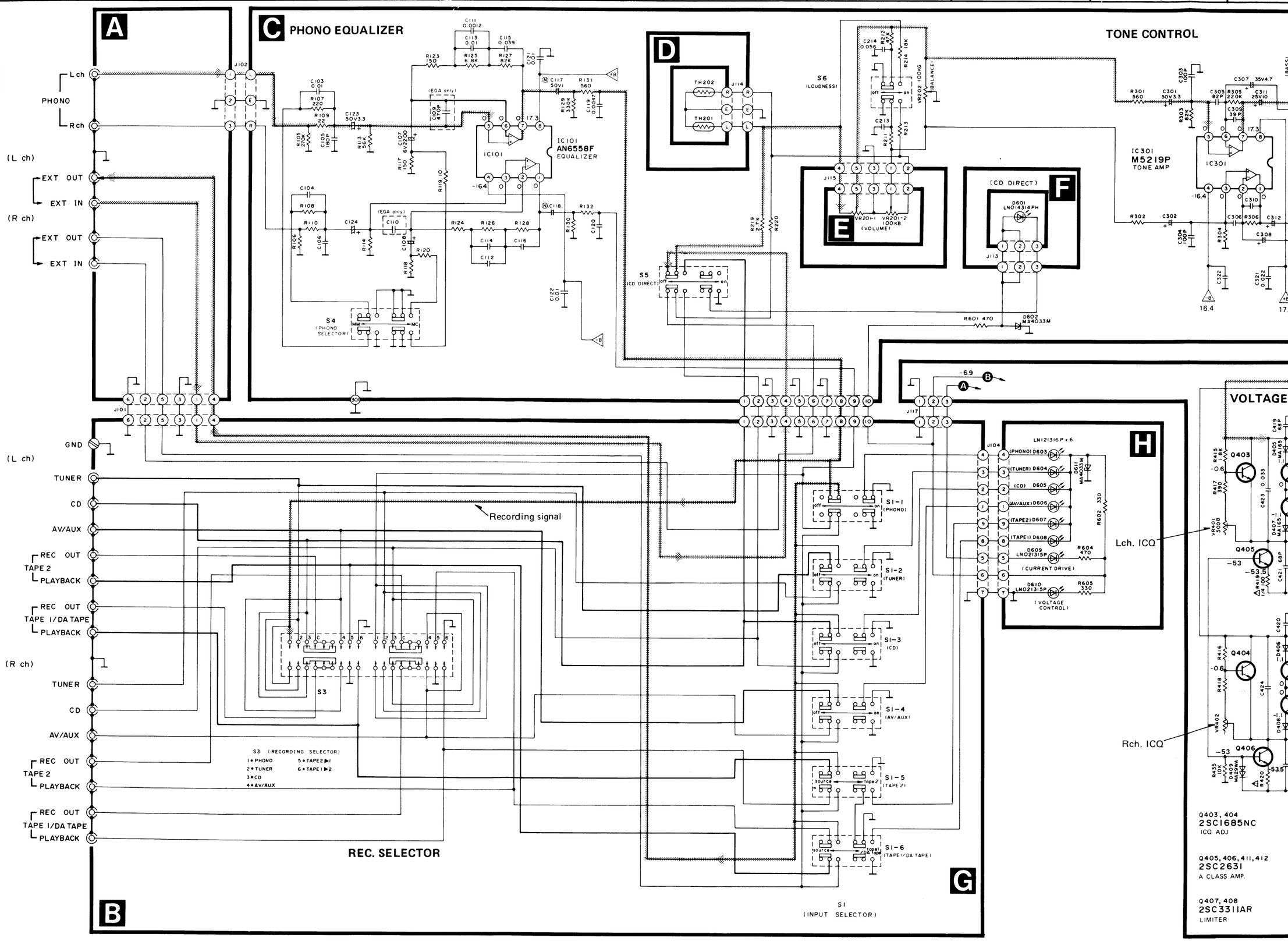


■ WIRING CONNECTION DIAGRAM



- Phono input
- Program source input/output
For F.R. Germany (EGA)





TONE CONTROL

IC301
M5219P
TONE AMP

IC401
AN7062N
VOLTAGE AMP

S8 (TONE)

VOLTAGE CONTROL

Q401 AMP.

Q401, 402
2SA1123
PRE DRIVE

Q701
2SC2592
VOLTAGE CONTROL

Q703
2SC1685NC
REGULATOR

Q702
2SA1112
VOLTAGE CONTROL

F

(CD DIRECT)

D601 LN014314PH

D602 MA4033M

J113

R601 470

H

J104

(PHONO) D603

(TUNER) D604

(CD) D605

(AV/AUX) D606

(TAPE2) D607

(TAPE1) D608

D609 LN021315P

D610 LN021315P

(CURRENT DRIVE)

(VOLTAGE CONTROL)

R602 330

R604 470

R605 330

LN121316P x 6

D611 MA4033M

Lch. ICQ

Rch. ICQ

VOLTAGE CONTROL AMP.

POWER AMP./
CURRENT DRIVE AMP.

IC501
SVI4004
POWER AMP.

Q403, 404
2SC1685NC
ICQ ADJ

Q413, 414
2SA1123
A CLASS AMP.

Q405, 406, 411, 412
2SC2631
A CLASS AMP.

Q415, 416
2SC3298
A CLASS AMP

Q407, 408
2SC3311AR
LIMITER

Q409, 410
2SA1309AR
LIMITER

Q417, 418
2SA1306
A CLASS AMP.

Q501, 502
2SC2631
CURRENT STABI.

Q503, 504
2SA1123
CURRENT STABI.

Q505, 506
2SA992
OVERLOAD DET.

I

HEADPHONES

S9-1 (MAIN SPEAKERS)

S9-2 (REMOTE SPEAKERS)

MUTING/PROTECTION

IC601
AN7073
MUTING
(PROTECTION)

Q601
2SA992
RELAY DRIVE

Q602
2SA1309AR
LED DRIVE

L ch
MAIN
R ch
L ch
REMOTE
R ch
SPEAKERS

• Speaker terminal
For F.R.Germany (EGA)

• Power source circuit
For other areas (XA)

J

• Power source circuit
For Continental Europe & Australia

K

L

S10 (SPEAKER IMPEDANCE)

(16Ω↔8Ω···main or remote)

(8~16Ω↔4~16Ω···main and remote)

AC OUTLET

■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

1. **S1-1 ~ S1-6:** Input selector switch in "**phono**" position.
   S1-1: phono S1-2: tuner S1-3: CD
   S1-4: AV/aux S1-5: Tape 2 S1-6: Tape 1/DA tape
2. **S3:** Recording selector in **"CD"** position.
3. **S4:** Phono selector in **"MM"** position.
   (■ MM, ▬ MC)
4. **S5:** CD direct switch in "**off**" position.
   (■ off, ▬ on)
5. **S6:** Loudness switch in "**off**" position.
   (■ off, ▬ on)
6. **S8:** Tone control switch in "**defeat**" position.
   (■ defeat, ▬ on)
7. **S9-1:** Main speaker switch in "**on**" position.
   (■ off, ▬ on)
8. **S9-2:** Remote speaker switch in "**off**" position.
   (■ off, ▬ on)
9. **S10:** Impedance select switch in **"8 ~ 16Ω/16Ω"** position.
   (8 ~ 16Ω/16Ω, ⟷ 4 ~ 6Ω/8Ω)
10. **S11:** Power switch in "**on**" position.
    (■ off, ▬ on)
11. **S12:**(For [XA] area only): Voltage selector switch in **"110V"** position.
    (127V ⟷ 110V ⟷ 220V ⟷ 240V)
12. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
13. ▒▒▒ Phono signal (Lch)
    ——— Positive voltage lines or Nagative voltage lines.
14. Important safety notice:
    Components identified by △ mark have special characteristics important for safety.
    When replacing any of these components, use only manufacturer's specified parts.

■ REPLACEMENT PARTS LIST

Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety nitice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
3. Ⓚ – marked parts are used for black only, while ○ – marked parts are for silver type only.
4. Part other than Ⓚ – and ○ – marked are used for both black and silver type.
5. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
6. The "Ⓢ" mark is service standard parts and may differ from production parts.
7. The parenthesized numbers in the column of description stand for the quantity per set.

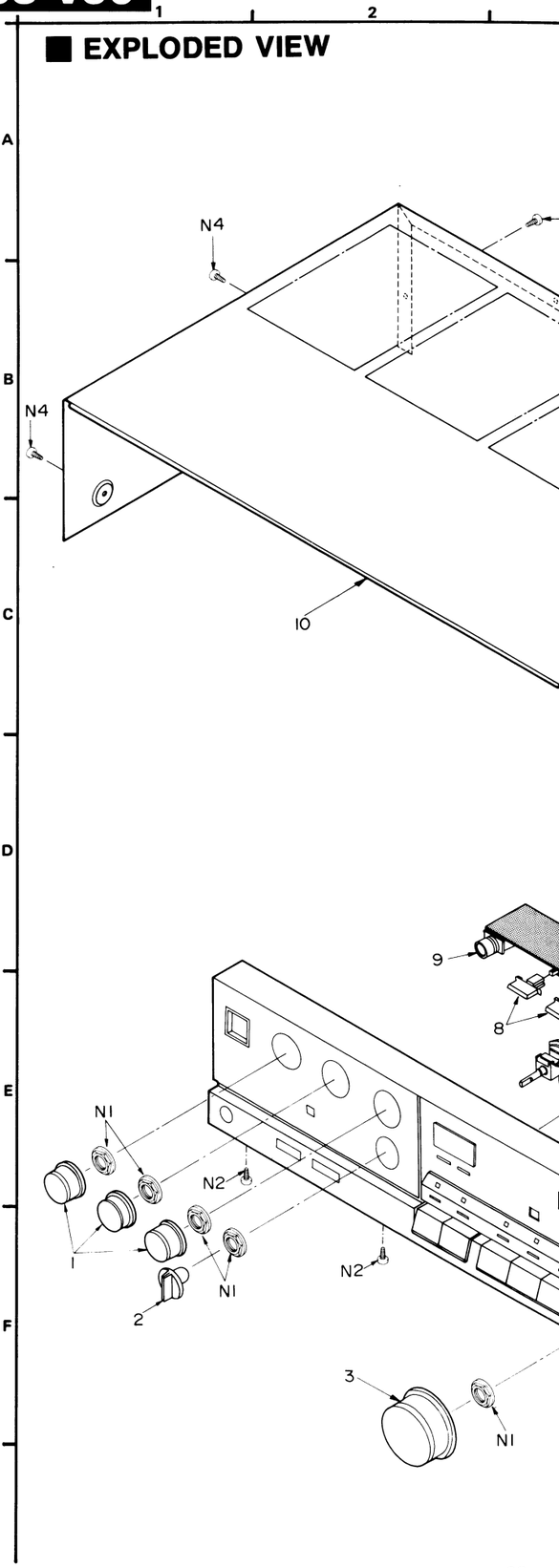
Ref. No.		Part No.	Description
INTEGRATED CIRCUITS			
IC101		AN6558F	IC
IC301		M5219P	IC
IC401		AN7062N	IC
IC501		SVI4004	IC
IC601		AN7073	IC
TRANSISTORS			
Q401, 402, 413, 414, 503, 504		2SA1123−R	Transistor
Q403, 404, 703		2SC1685RST	Transistor
Q405, 406, 411, 412, 501, 502		2SC2631−R	Transistor
Q407, 408		2SC3311−Q	Transistor
Q409, 410, 602		2SA1309Q	Transistor
Q415, 416		2SC3298AY	Transistor
Q417, 418		2SA1306AY	Transistor
Q505, 506, 601		2SA992E	Transistor
Q701		2SC2592−R	Transistor
Q702		2SA1112−R	Transistor
DIODES			
D401, 402		MA162A	Diode
D403, 404, 409, 505		MA29WA	Diode
D405~408, 620		MA165	Diode
D501, 502		MA4062−M	Diode
D503, 504		MA167	Diode
D601		LN48YCP	LED
D602, 611		MA4033M	Diode
D603~608		LN863RCPP	LED
D609		LN463YCPP	LED
D610		LN863RCPP	LED
D621, 622		MA4120−M	Diode
D624		SVDSR1K2	Diode
D701		MA4160M	Diode
D702~705	⚠	SVDS3V40	Rect
COILS			
L1 [EGA] only	⚠	SLQZ650MH49	Coil
L101, 102 [EGA] only		SLM1Z33	Coil
L501, 502		SLQY07G−40	Coil
L503, 504		SLQY18G−10	Coil
L505~508 [EGA] only		SLQY07G−40	Coil
TRANSFORMERS			
T1 [XA] only	⚠	SLT5P251−W	Power Source
T1 [EK, XL]	⚠	SLT5P250−W	Power Source
T1 [other]	⚠	SLT5P249−W	Power Source
VARIABLE RESISTORS			
VR201		EWJKXA090B15	Main Volume
VR202		EVH0YA015G15	Balance
VR301, 302		EWCRYA023C15	Bass/Treble
VR401, 402		EVNK6AA00B52	I_{CQ} Adj.
THERMISTERS			
TH201, 202		ERTD2ZHL104S	Thermister
FUSES			
F1 [EK] only	⚠	XBA2C20TB0	250V, T2A
F1 [XA] only	⚠	XBA2C40TR0	250V, T4A
F1 [other]	⚠	XBA2C20TR0	250V, T2A
F2 [XA] only	⚠	XBA2C20TR0	250V, T2A
SWITCHES			
S1-1~1-6		SSH656	Input Selector
S3		ESA2682	Rec. Selector
S4		SSH2114	Phono Selector
S5		SSH1215	CD Direct
S6		SSH2114	Loudness
S8		SSH1214	Tone
S9-1		SSH2115	Main Speaker Selector
S9-2		SSH2115	Remote Speaker Selector
S10		SSS154	Speaker Impedance Selector

Ref. No.		Part No.	Description
SWITCHES			
S11	⚠	ESB8215V	Power Source
S12 [XA] only	⚠	ESE37263	Voltage Selector
RELAY			
RLY1		SSY129	Relay

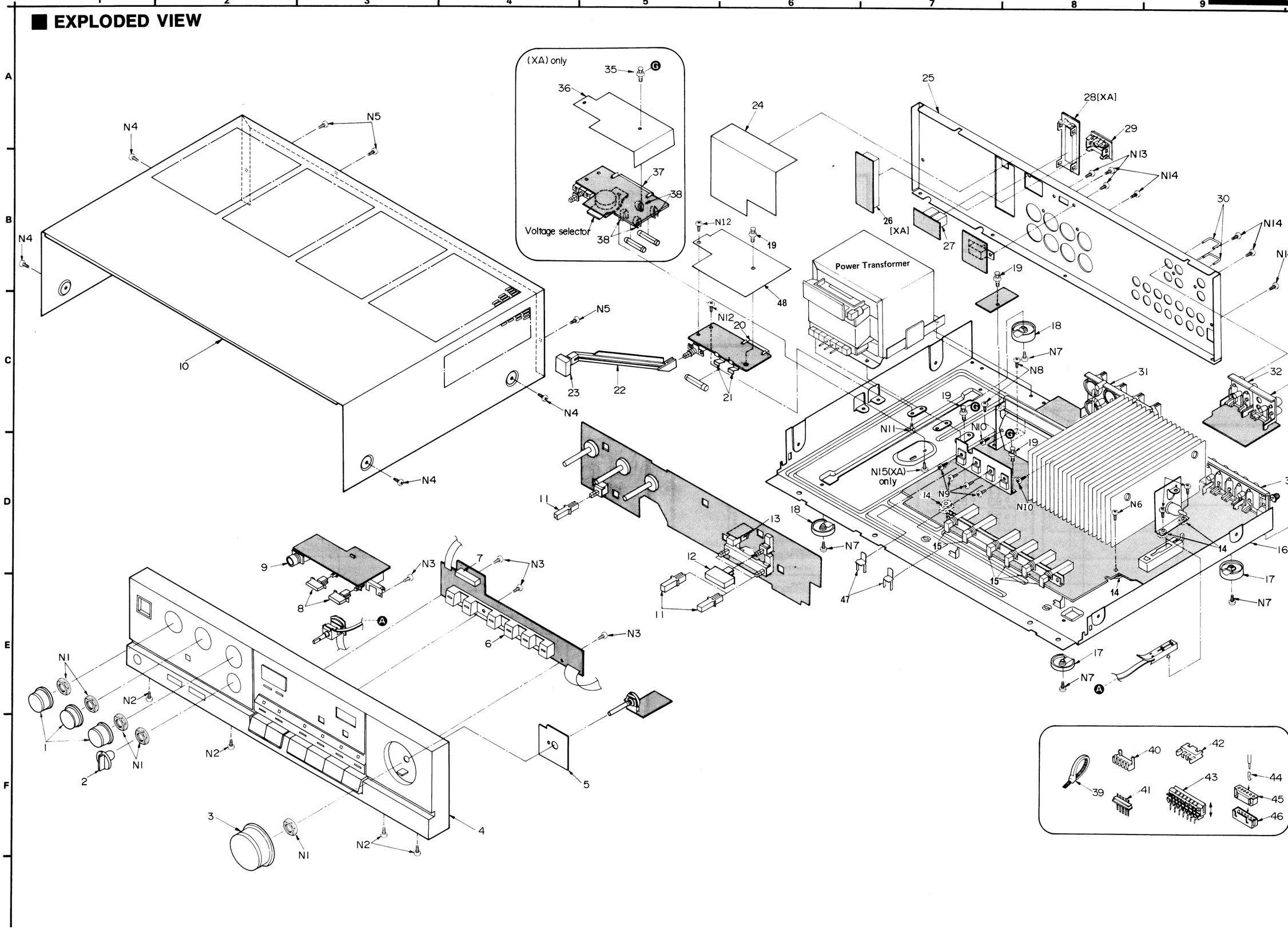
Ref. No.		Part No.	Description	
CABINET and CHASSIS PARTS				
1	○	SBN1207−1	Knob, Bass, Treble, Balance	(3)
1	Ⓚ	SBN1206	Knob, Bass, Treble, Balance	(3)
2	○	SBN1089−4	Knob, Selector	(1)
2	Ⓚ	SBN1089−3	Knob, Selector	(1)
3	○	SBN1210−1	Knob, Volume	(1)
3	Ⓚ	SBN1210	Knob, Volume	(1)
4	○	SGWUV50−SE	Front Panel Ass'y	(1)
4	Ⓚ	SGWUV50−KE	Front Panel Ass'y	(1)
5		SMC6407	Shield Plate	(1)
6		LN064316P	L.E.D. Ass'y	(1)
7		LN021315P	L.E.D. Ass'y	(1)
8	○	SBC439	Button, S.P Selector	(2)
8	Ⓚ	SBC439−2	Button, S.P Selector	(2)
9		SJJ126B	Headphone Jack	(1)
10 [EK]	○	SKCUV50−SK	Cabinet Ass'y	(1)
10 [other]	○	SKC1760S982	Cabinet	(1)
10 [EK]	Ⓚ	SKCUV50−KK	Cabinet Ass'y	(1)
10 [other]	Ⓚ	SKC1760K992	Cabinet	(1)
11	○	SBC719	Button, Loudness, Tone, MM/MC	(3)
11	Ⓚ	SBC719−1	Button, Loudness, Tone, MM/MC	(3)
12	○	SBC820−1	Button, CD Direct	(1)
12	Ⓚ	SBC820	Button, CD Direct	(1)
13		LN014314PH	L.E.D.	(1)
14		SHE187−1	P.C.B. Holder	(6)
15		SUB254	Connection Rod, Input Selector	(6)
16 [XA]		SKUUV50−KX	Bottom Cover Ass'y	(1)
16 [other]		SKU11280−6	Bottom Cover	(1)
17		SKL299	Foot (Right)	(2)
18		SKL299−1	Foot (Left)	(2)
19		SHR401−1	Nylon Pin	(3)
20		SJS305	Connector (3 Pin)	(1)
21		SJT388	Fuse Holder	(2)
22		SUB233	Connection Rod, Power	(1)
23	○	SBC666	Button, Power	(1)
23	Ⓚ	SBC666−3	Button, Power	(1)
24		SMX909	Insulation Cover	(1)
25 [E]		SGP6810A	Rear Panel	(1)
25 [EK]		SGP6810C	Rear Panel	(1)
25 [XA]		SGP6810−1A	Rear Panel	(1)
25 [XL]		SGP6810D	Rear Panel	(1)
25 [EGA]		SGPUV50−KG	Rear Panel Ass'y	(1)
25 [other]		SGPUV50−KE	Rear Panel Ass'y	(1)
26 [XA]	⚠	SJS9328B	AC Outlet	(1)
27 [XL]	⚠	SJS9234B	AC Inlet	(1)
27 [other]	⚠	SJS9231B	AC Inlet	(1)
28 [XA]		SJS9328A	AC Outlet Cover	(1)

Ref. No.		Part No.	Description	
CABINET and CHASSIS PARTS				
29 [XL]		SJS9234A	AC Inlet Cover	(1)
29 [other]		SJS9231A	AC Inlet Cover	(1)
30		SJP9205−2	Short Pin	(2)
31		SJF4815−1	Speaker Terminal	(1)
32		SJF3057N	EXT. Terminal	(1)
33		SJF3057−5N	Phono Terminal	(1)
34		SJF3062NK	Input Terminal	(1)
35 [XA]		SHR401−1	Nylon Pin	(1)
36 [XA]		SMX916	Insulation Cover	(1)
37 [XA]		SJS702	Connector (7 Pin)	(1)
38 [XA]		SJT347	Fuse Holder	(4)
39		SHR301	Clamper	(5)
40		SJS5341	Connector (3 Pin)	(1)
41		SJT3311	Post (3 Pin)	(3)
42		SJT3321	Post (3 Pin)	(1)
42		SJT3711	Post (7 Pin)	(1)
43		SJT30843−V	Socket (8 Pin)	(1)
43		SJT30943−V	Socket (9 Pin)	(1)
44		SJT783	Connector Pin	(21)
45		SJS5215	Connector (2 Pin)	(1)
45		SJS5331	Connector (3 Pin)	(2)
45		SJS5629	Connector (6 Pin)	(1)
45		SJS5715	Connector (7 Pin)	(1)
46		SJT3213	Post (2 Pin)	(1)
46		SJT3319	Post (3 Pin)	(1)
46		SJT3611	Post (6 Pin)	(1)
47		SMY897	Bracket	(2)
48 Except [XA]		SMX910	Insulation Cover	(1)
SCREWS				
N1		SNE4021	Nut	(5)
N2		XTBS3+10JFZ1	Tapping, ⊕3×10	(4)
N3		XTB3+10GFR	Tapping, ⊕3×10	(4)
N4	○	SNE2095−4	Cabinet	(4)
N4	Ⓚ	SNE2095−5	Cabinet	(4)
N5	○	XTB3+8JFN	Tapping, ⊕3×8	(3)
N5	Ⓚ	XTB3+8JFZ	Tapping, ⊕3×8	(3)
N6		XTB3+20J	Tapping, ⊕3×20	(4)
N7		XTW3+10T	Tapping, ⊕3×10	(6)
N8		XTBS3+20F1	Tapping, ⊕3×20	(4)
N9		XTW3+8T	Transistor	(6)
N10		XYN3+F14	Power IC	(2)
N11		XTB3+8FFZ	Tapping, ⊕3×8	(8)
N12		XTW3+8TFR	Tapping, ⊕3×8	(2)
N13		XYN3+C6FZS	Tapping, ⊕3×8	(2)
N14		XTBS3+8JFZ1	Tapping, ⊕3×8	(6)
N15 [XA]		XYN3+F8	Tapping, ⊕3×8	(1)
ACCESSORIES				
A1 [EK]	⚠	SFDAC05G02	AC Cord	(1)
A1 [XL]	⚠	SJA173	AC Cord	(1)
A1 [XA]	⚠	SJA168−1	AC Cord	(1)
A1 [other]	⚠	SFDAC05E03	AC Cord	(1)
A3 [XA]		SJP9215	Plag	(1)
A4 [EGA]		SQFK10141	Instruction Book	(1)
A4 [XA]		SQFK10139	Instruction Book	(1)
A4 [other]		SQFK10140	Instruction Book	(1)
PACKING PARTS				
P1 [EK]		SPGK263	Carton Box	(1)
P1 [EF]		SPGK266	Carton Box	(1)
P1 [other]		SPGK262	Carton Box	(1)
P2		SPSK101	Pad (Left)	(1)
P3		SPSK102	Pad (Right)	(1)
P4		SPS4613−1	Pad (Upper)	(1)
P5		SPP723	Polyethylene Bag	(1)
P6 [EF]		SGK1411	Lebel	(2)

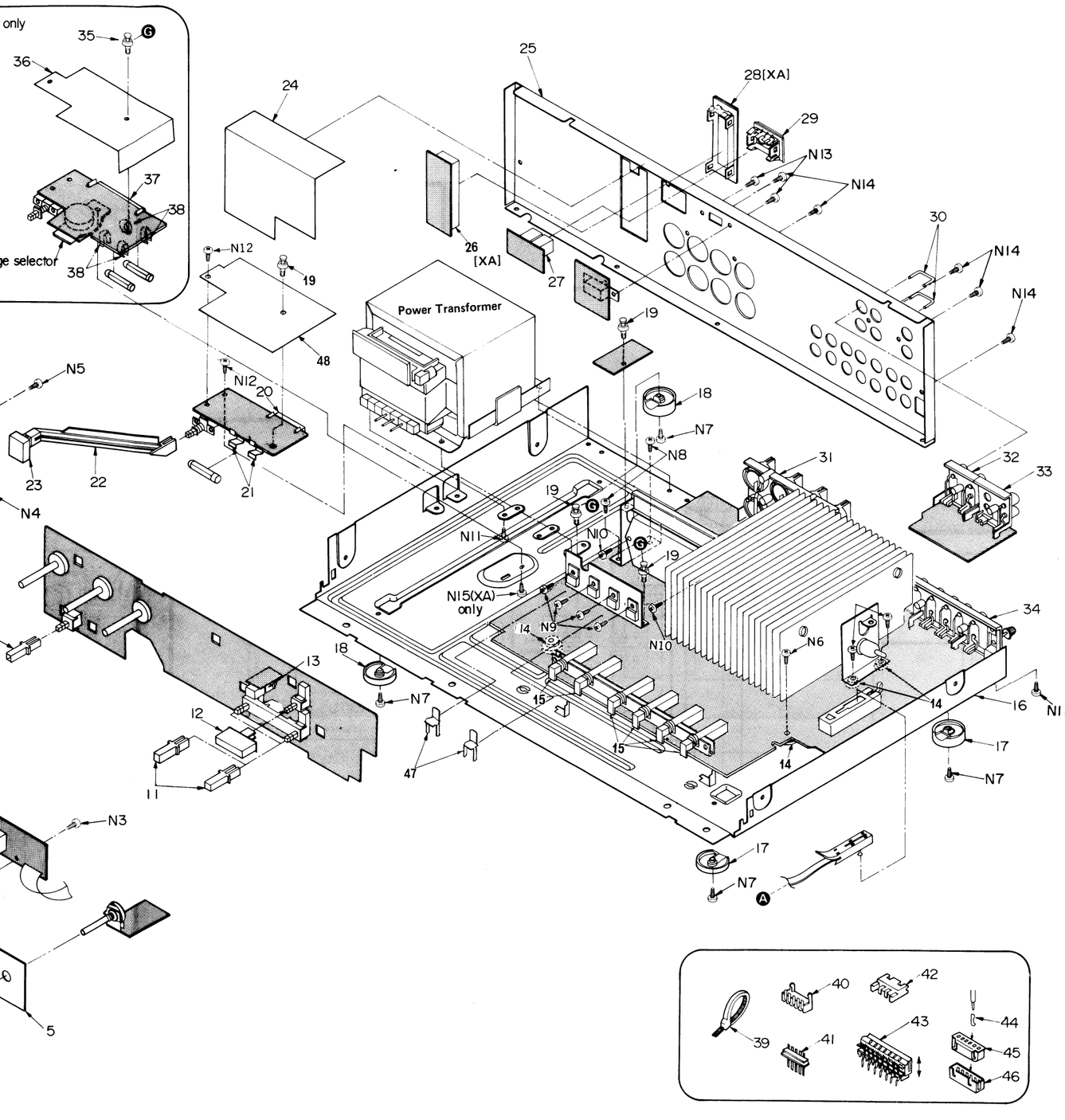
■ EXPLODED VIEW



■ EXPLODED VIEW



Part No.	Description	
CHASSIS PARTS		
59234A	AC Inlet Cover	(1)
59231A	AC Inlet Cover	(1)
P9205−2	Short Pin	(2)
F4815−1	Speaker Terminal	(1)
F3057N	EXT. Terminal	(1)
F3057−5N	Phono Terminal	(1)
F3062NK	Input Terminal	(1)
R401−1	Nylon Pin	(1)
X916	Insulation Cover	(1)
5702	Connector (7 Pin)	(1)
347	Fuse Holder	(4)
R301	Clamper	(5)
5341	Connector (3 Pin)	(1)
3311	Post (3 Pin)	(3)
3321	Post (3 Pin)	(1)
3711	Post (7 Pin)	(1)
30843−V	Socket (8 Pin)	(1)
30943−V	Socket (9 Pin)	(1)
783	Connector Pin	(21)
5215	Connector (2 Pin)	(1)
5331	Connector (3 Pin)	(2)
5629	Connector (6 Pin)	(1)
5715	Connector (7 Pin)	(1)
3213	Post (2 Pin)	(1)
3319	Post (3 Pin)	(1)
3611	Post (6 Pin)	(1)
Y897	Bracket	(2)
X910	Insulation Cover	(1)
E4021	Nut	(5)
BS3+10JFZ1	Tapping, ⊕3×10	(4)
3+10GFR	Tapping, ⊕3×10	(4)
E2095−4	Cabinet	(4)
E2095−5	Cabinet	(4)
3+8JFN	Tapping, ⊕3×8	(3)
3+8JFZ	Tapping, ⊕3×8	(3)
3+20J	Tapping, ⊕3×20	(4)
V3+10T	Tapping, ⊕3×10	(6)
BS3+20F1	Tapping, ⊕3×20	(4)
V3+8T	Transistor	(6)
I3+F14	Power IC	(2)
3+8FFZ	Tapping, ⊕3×8	(8)
V3+8TFR	Tapping, ⊕3×8	(2)
I3+C6FZS	Tapping, ⊕3×8	(2)
BS3+8JFZ1	Tapping, ⊕3×8	(6)
I3+F8	Tapping, ⊕3×8	(1)
S		
AC05G02	AC Cord	(1)
173	AC Cord	(1)
168−1	AC Cord	(1)
AC05E03	AC Cord	(1)
9215	Plag	(1)
K10141	Instruction Book	(1)
K10139	Instruction Book	(1)
K10140	Instruction Book	(1)
RTS		
K263	Carton Box	(1)
K266	Carton Box	(1)
K262	Carton Box	(1)
K101	Pad (Left)	(1)
K102	Pad (Right)	(1)
4613−1	Pad (Upper)	(1)
723	Polyethylene Bag	(1)
1411	Lebel	(2)



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